A2938.8006.WO ATALRY MAPKETED

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	MED UNCKELED			
To: RECE	IVED DUPCKETED			
CHRISTOPHER DALEY-WATSON PERKINS COIE LLP MAY 2	5 2005			
	NOTIFICATION OF TRANSMITTAL OF			
SEATTLE, WA 98111-1247 PERKIN	S CONTENTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL			
	SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day/month/year)			
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below			
429388006WO				
International application No. PCT/US05/03518	International filing date (day/month/year) 27 January 2005 (27.01.2005)			
Applicant				
WALTICAL SOLUTIONS, INC				
1. The applicant is hereby notified that the international search	ch report and the written opinion of the International Searching			
Authority have been established and are transmitted herew				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	ims of the international application (see Rule 46):			
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international			
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35				
For more detailed instructions, see the notes on the a				
2. The applicant is hereby notified that no international search report will be established and that the declaration under				
Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders				
	, the international application will be published by the International			
Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the				
International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary				
examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19				
months.				
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the ISA/ US				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Dinitry Levitan			
P.O. Box 1450 Alexandria, Virginia 22313-1450	Relephone No. 571-272-3093			
Pacsimile No. (703) 305-3230	-A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 429388006WO	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.			
International application No. PCT/US05/03518	International filing date (day/month/year) 27 January 2005 (27.01.2005)	(Earliest) Priority Date (day/month/year) 29 January 2004 (29.01.2004)		
Applicant WALTICAL SOLUTIONS, INC				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). By With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. 1. Certain claims were found unsearchable (See Box No. II) 4. With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:				
	1, according to Rule 38.2(b), by this Authorit	y as it appears in Box No. IV. The applicant		
6. With regard to the drawings, a. the figure of the drawings to be as suggested by the	published with the abstract is Figure No. 6 applicant. Authority, because the applicant failed to sug			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/03518

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : H04B 7/216 US CL : 370/342					
	International Patent Classification (IPC) or to both nat	ional classific	cation and IPC		
	DS SEARCHED				
	Minimum documentation searched (classification system followed by classification symbols) U.S.: 370/203, 204, 208, 210, 310, 328, 330, 335, 336, 338, 342				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, IEEE					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap	propriate, of	the relevant passages	Relevant to claim No.	
Further	r documents are listed in the continuation of Box C.	Se Se	ee patent family annex.		
"A" document of particu	pecial categories of cited documents: t defining the general state of the art which is not considered to be alar relevance optication or patent published on or after the international filing	*X** d	ater document published after the inte date and not in conflict with the applic the principle or theory underlying the document of particular relevance; the considered novel or cannot be conside	ation but cited to understand invention claimed invention cannot be	
date			step when the document is taken alone		
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as)	c	document of particular relevance; the considered to involve an inventive step combined with one or more other such being obvious to a person skilled in the	when the document is documents, such combination	
	t referring to an oral disclosure, use, exhibition or other means		document member of the same patent		
-P" document published prior to the international filing date but later than the					
Date of the a	Date of the actual completion of the international search Date of mailing of the international search report			ch report	
	5 (19.04.2005)		23 MAY 2005		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Authorized officer Dinitry Levitan Telephone No. 571-272-3093			Ward		

PATENT COOPERATION TREATY

From the INTERNAT	IONAL SEARCH	IING AUTH	ORITY		
To: CHRISTOPHER DALEY-WATSON PERKINS COIE LLP		PCT			
P.O. BOX 1247 SEATTLE, WA 98111-1247		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	23 MAY 2005
Applicant'	s or agent's file	reference		FOR FURTHER	
429388006	swo				
Internation	al application No	•	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US05			27 January 2005 (27.01		29 January 2004 (29.01.2004)
Internation	nal Patent Classifi	cation (IPC)	or both national classifica	tion and IPC	
	04B 7/216 and U	S Cl.: 370/34	42		
Applicant					
WALTICA	AL SOLUTIONS.	, INC			
1. This o	opinion contains is	ndications re	lating to the following iter	ns:	
\boxtimes	Box No. I Basis of the opinion				
	Box No. II Priority				
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV Lack of unity of invention				
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			-	
	Box No. VI Certain documents cited				
	Box No. VII	VII Certain defects in the international application			
	Box No. VIII	Certain ob	servations on the internation	onal application	
2. FUR	THER ACTIO	N			
Intern Autho	national Prelimina prity other than th	ary Examini is one to be	ng Authority ("IPEA") e	xcept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an an International Bureau under Rule 66.1bis(b) dered.
IPEA maili	a written reply	together, will ISA/220 or b	here appropriate, with an before the expiration of 22	nendments, before t	PEA, the applicant is invited to submit to the he expiration of 3 months from the date of fority date, whichever expires later.
3. For fi	urther details, see	notes to For	rm PCT/ISA/220.	1)
1	mailing address of Mail Stop PCT, Atta Commissioner for P P.O. Box 1450 Alexandria, Virginia	n: ISA/US Patents	JS	Authorized office Unitry Levitan	171-272-3093 NW

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/03518

Box No. I Basis of this opinion	
	7
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.	1
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:	
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in written format	
in computer readable form	
c. time of filing/furnishing	
contained in international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additional comments:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/03518

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-32 Claims 33-35	YES NO
Inventive step (IS)	Claims <u>1-32</u> Claims <u>33-35</u>	YES
Industrial applicability (IA)	Claims 1-35 Claims NONE	YES NO

2. Citations and explanations:

Claims 33-35 lack an inventive step under PCT Article 33(3) as being obvious over Li (US PUB 202/0159422).

Regarding claims 33-35, Li teaches a broadband wireless communication system (Fig. 11) comprising:

A plurality of transmitters (transmitters on Fig. 11), wherein:

At least one transmitter is configured to transmit DSSS signals (OFDM transmitter 1109),

At least one transmitter is configured to transmit MC signals (CDMA transmitter 1110),

The transmitted DSSS signals are superimposed with MC signals in the frequency spectrum transmitted simultaneously on the same frequency channel (downlink comprising CDMA and OFMD [0076].

Claims 1-33 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest that DSSS signal is transmitted at a power level significantly lower than that of the MC signal.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexcs B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.